

REMARKS

Applicant respectfully requests reconsideration and allowance of the subject application. Claims 2-3 and 28 have been canceled. Claims 1, 4-18, 20-27, 29-42, 44-45, and 48-52 are pending, of which claims 1, 4-13, 16, 26,
5 29-32, 37, 42, and 44 have been amended.

35 U.S.C. §102 Claim Rejections

Claims 1-18, 20-42, 44-45, and 48-52 are rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent Publication No. 2002/0126171 to
10 Subirada et al. (hereinafter, "Subirada") (*Office Action* p.2). Applicant notes that Subirada and the subject application are commonly assigned to the Hewlett-Packard Company. Claims 2-3 and 28 have been canceled, and Applicant respectfully traverses the rejection of the remaining claims.

15 Claim 1 (as amended) recites a printing device, comprising:

a pen configured to transfer an imaging medium onto a print media to form printed diagnostic images that each include at least a first print swath image and a second print swath image;
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a sensor configured to detect pen swath optical densities from the printed diagnostic images, the pen swath optical density of a printed diagnostic image being detected from the at least first print swath image, the second print swath image, and non-printed space of the imaging medium proximate the at
25 least first print swath image and the second print swath image;

an application component configured to determine an error compensation factor from the pen swath optical densities of the printed diagnostic images; and
30

a print media line-feed advance configured to be offset corresponding to the error compensation factor.

Claim 1 recites "the pen swath optical density of a printed diagnostic image being detected from the at least first print swath image, the second print swath image, and non-printed space of the imaging medium proximate the at least first print swath image and the second print swath image". Support for the amendments to claim 1 is shown in Applicant's Figs. 5-6 and is described in the Specification on at least page 13, line 26 through page 19, line 2. Claim 1 is allowable over Subirada which does not anticipate each and every element recited in claim 1 as would be required to substantiate the §102 rejection.

Accordingly, claim 1 along with dependent claims 4-15 are allowable over Subirada and Applicant respectfully requests that the §102 rejection be withdrawn.

Claim 16 (as amended) recites a printing device, comprising:

a pen configured to transfer an imaging medium onto a print media to form a printed diagnostic image which includes printing first swath images on the print media, advancing the print media, and printing second swath images on the print media, the first swath images and the second swath images being printed to form the printed diagnostic image;

a sensor configured to detect pen swath optical densities from the printed diagnostic image, the pen swath optical densities of the printed diagnostic image being detected from the first swath images, the second swath images, and non-printed space of the print media proximate the first swath images and the second swath images; and

an application component configured to determine a pen swath height error compensation factor from the pen swath optical densities of the printed diagnostic image, the application component further configured to determine a print media line-feed advance offset from the pen swath height error compensation factor.

Claim 16 recites "the pen swath optical densities of the printed diagnostic image being detected from the first swath images, the second swath images, and non-printed space of the print media proximate the first swath images and the second swath images". For the reasons described above in the response to the rejection of claim 1, claim 16 is allowable over Subirada.

Accordingly, claim 16 along with dependent claims 17-18 and 20-25 are allowable over Subirada and Applicant respectfully requests that the §102 rejection be withdrawn.

10 Claim 26 (as amended) recites a method to correct printing mechanism swath height and line-feed advance errors, comprising:

15 printing a diagnostic image on a print media, the diagnostic image formed with first swath images and second swath images;

 detecting pen swath optical densities from the diagnostic image, the pen swath optical densities being detected from the first swath images, the second swath images, and non-printed space of the print media proximate the first swath images and the second swath images;

20 determining an error compensation factor from the pen swath optical densities of the diagnostic image; and

25 offsetting a print media line-feed advance corresponding to the error compensation factor.

Claim 26 (as amended) recites "the pen swath optical densities being detected from the first swath images, the second swath images, and non-printed space of the print media proximate the first swath images and the second swath images". For the reasons described above in the response to the rejection of claim 1, claim 26 is allowable over Subirada.

Accordingly, claim 26 along with dependent claims 27 and 29-36 are allowable over Subirada and Applicant respectfully requests that the §102 rejection be withdrawn.

5 Claim 37 (as amended) recites “detecting a first optical density correlating to a first offset between the first swath images and corresponding second swath images, the first optical density being detected from the first swath images, the second swath images, and non-printed space proximate the first swath images and the second swath images”.

10 For the reasons described above in the response to the rejection of claim 1, claim 37 is allowable over Subirada. Accordingly, claim 37 along with dependent claims 38-41 are allowable over Subirada and Applicant respectfully requests that the §102 rejection be withdrawn.

15 Claim 42 (as amended) recites “detecting pen swath optical densities from a printed diagnostic image formed with first swath images and second swath images, the pen swath optical densities being detected from the first swath images, the second swath images, and non-printed space proximate the first swath images and the second swath images”.

20 For the reasons described above in the response to the rejection of claim 1, claim 42 is allowable over Subirada. Accordingly, claim 42 is allowable over Subirada and Applicant respectfully requests that the §102 rejection be withdrawn.

25 Claim 44 (as amended) recites “detecting pen swath optical densities from the diagnostic image, the pen swath optical densities being detected from

the first swath images, the second swath images, and non-printed space of the print media proximate the first swath images and the second swath images”.

For the reasons described above in the response to the rejection of claim 1, claim 44 is allowable over Subirada. Accordingly, claim 44 along
5 with dependent claims 45 and 48-52 are allowable over Subirada and Applicant respectfully requests that the §102 rejection be withdrawn.

Conclusion

10 Pending claims 1, 4-18, 20-27, 29-42, 44-45, and 48-52 are in condition for allowance. Applicant respectfully requests reconsideration and issuance of the subject application. If any issues remain that preclude issuance of this application, the Examiner is urged to contact the undersigned attorney before
15 issuing a subsequent Action.

Respectfully Submitted,

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